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Diag Cht. No. 1207-1
Form 504
U. S. COAST AND GEODETIC SURVEY
DEPARTMENT OF COMMERCE
DESCRIPTIVE REPORT
Type of Survey Dydrographic
Type of Survey Dydrographic Field No. Office No. 2269
LOCALITY
State Muss
General locality Coast of Mass.
Locality Manchester to Glow-
Cestin 1896
-194-
CHIEF OF PARTY
St Comd & Dunlap 71. S.71.
LIBRARY & ARCHIVES
DATE
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U. S. COAST AND GEODETIC SURVEY. Gen. W. W. Duffield State: Mass DESCRIPTIVE REPORT. Hydrographic Sheet No. 2269. LOCALITY: Coastof Mars., Manchester 1896. CHIEF OF PARTY: ieut Condr. A. Dunlap, U. S. N.

Hahm C. Ballium, M.S. relegraph me at: Woodall's Ship your, Frot of Aller Street, Joens Pt, Ballion, 145. U. S. COAST AND GEODETIC SURVEY, Thame Blans 29 trember 1896. #151. Proception Beaut. To The Supersuteubuts H. V. Coast and Grodelies Survey, Washington, D.C. 1. I have the honor to submit the following description upons of the hydrographic work months of August, September and October under you nextructions, date of the of of extragues, 1896, and the detailes maturations of the Hyprographic Suspector, deter the 10th of doguest, 1896. 2. The following projection, tracings, tidal data, Ite, was never from the Hy Drographie Suspector for the execution of this works, vig . The (1) projection, teals ; oors, Court of Manachersitts between Baker Island and Glonessen. One (1) Sheet, description of mangalation Halins falling in the above projection. Vij (6) descriptions of tidal benese mach of

The Coast of Marsachasells.

One (1) Wheer, Grographic positions of Do falling on pro-

Mel 1) Tracing of flowerster and vicinity from works
of ficulty from in 18 9 st.

The (1) Trueing from Hydrographic shut 2226 by Vients Press in 1895.

Me (1) copy of chart to 385, showing location of Thourspipe at Manchester.

The (1) theet, Augles taken to locate the Handpipe.

3. Atma discompanies were found in the augles taken from the mangulation Halans at Baken below and frait Misery and they were uponted to the Hydrographic has preter on the 19th aug & 4th of Angus last. The augles Taken from the Triangulation Hatims on Baken below and lastern from more reasly agrees and pair better conditions and lastern from more reasly agrees and pair better conditions and lastern from account to be cornect.

4. No augle comes les Tarren from Manchester

thursh on assomet of bring mable to nach a point sufficiently slevales from think other the statum could be seen, this due to the grosoth of this end foliage. The transgulation statue on the state belows comes not forms by the party of Junes. Prest in 1895. A signed, however, was enclosed in these some considered to be the stance place as that uses by Jieut Prest. The loss of this transgulation point is not ably due to disintegration of the grante roots in think the bolt was places. The signals enclosely by fiend.

Prest in 1895 has been decreases, with few marking, probably by the storm gales of the part conten.

5. In the 30th of tripleus I make a special news of daugers to Mavigation thick frehaman hat Kindly reports to me thick making ingrimes among them; A deeplementary report was made in the 3.5 Of Petobu in regard to the location of the burys and had the submisse to Gloricette Nactor; and a report was also make on the 18th of Detobus in regard to the proper name of the ledge locales off magnotice, theory.

16. The survey was begun with a rejeten of right aught intersection of hiers 100 mems upon,

but the ground was are broken and tousings to imquear that a very close development with double disgonal intervestions was carried over many of the shoal places. If whom when the water was quite deep this was not considered so imputant:

7. The poherman about Manchester, magustic and florecate gave a great deal of assertance and Those from Magnolia often put themselve out in going along, as my agrest, in our boats or their own to locate works league and works. To change invites was see made for services of this timo and I am to them for much values information and Expecially to last. Was. Songlass of hagnolia, hass. I would suggest that when the chart of this boality is fin. wher that copies be sent to the following name ofice somen who gade information and assistance: lapt Me S. Vonglass, Theres John B. Turotten, Charles Lewis, Honey K. Hory, John G. Bumean and J. W. Mehals of Magnaha, hears: Lowars Hrath and Charles tugent of Thouse Cheeter Mass; Caps Marchaut of Fron Water Corr, Glow cashes and In ette. Bates of Rocky hear, Glonester,

8. The charts of this locality gire few

names of prominent objects, rocks, ledges, points, ita, but fisherman and prople of the orcinity how names you sach which, as a general rule, have how handed down from one generation to another. I am great ly morber to the Work to Trappan of Manakestu, Was, Who is the surveyor of the lown, a former thater true ator aus the Brusous and historian of the Manchester Hotonical bouty; for a chart showing the names of many of the poarts, brackes, heads and Cover, and for much other valuable information. He dates that it has been and is the aim of the tracially of which he is president and historium to restors the original name to Each locality. This chase is Enclosed with other dala stating to the survey au 5 the names have kain assigned to their proper places in the 180peter subject to your approved. I would suggest That When the chart is finished That a copy be such to tue dappare.

9. In two histories names, securing to fish comen and others, have been improperly places on this old Coast decreey charts, viz: Little Egg Prockiustras of bring in close proximity to Great Egg Rose. When there is a brunch of rocks above water, is as-

sugnes to a rock? 1/8 of a will It of at the name fishermen tay is called Trock durly. The other name is that of the corn at the gradia marked on the Coast showing charts as title Corn. According to the Jappan and passermen about the gradia this name was given to the corn back of Jolornith's Point as marked in the chart of themather given me by In Jappan. It is normanded that the name by assigned as about and the name of the corn or magnetic truth for the chart of the same of the corn or magnetic trather, as it is well turn to yacklo. Men and finhermen by the name about.

10. Gray Brack, Black Brack and Wite Brack. The brack in Magnolia Ractor is now Mumon them as Checent Brack, but the proper name according to her. Jappan is Gray Brack not Grays Brack as marked on his chart; and by the Rame authority the one in the myst core to the Torstward is Black Brack and the one in the cover beyond Como below, the next one to the Wistward, is White Brack.

11. Cedar Points exteening to hu. Angles and others in Magnelia the name of the point on which Magnelia slands in Cadar Point & desired its name from a large cedar tree which formerly store there In sweat wastances tately the point has her turner by the name of the person who built the last house near its Extreme and, as Goodwins, targents and McClines Point." On a was map it is marked hagnolia Point."

12. Paple-stone Brack. The Honey brack in the hight pust to the lastwar of levar Point is Russe as Popple-stone Brack from the chandle of the others forming it. They are worn round and somewhal and have been thrown up by the action of the Hear; so many have been carried away by risited that the owner has furbiden their removal.

13. Rafes Chasar. the chase in the slift. Of Kerman's 1802 is Buown as Rafes Chasen.

14. Goldsmither Points this name is properly places, although the ross man refered to given the name as "Poolinge's Prints"

15. Crow below 5. The small, high, wetry, prommitons, to the Westward of Goldwiths Point, in which is located O Pole is known as Crow below. It was postably an island at high water, at one Time, for the was posses own a a bridge when it is glower 5 at lytruma hors. Fishermen state this is the name handed direct to them and that it has never been thereon to them by any other name.

16. Fown Hras. To the Melwar of White these, as places in the chart of The Fappen, is a high, woods bluff earles Fown Hras, from the fact That it was a part of the form form of Manchester.

17. Graves Brack. The name of graves below 5 is properly places and the vandy brack immediably to the horthwars en 5 Westwars whould be called fravor Brack as whomen in the chart of Tu. Faggar.

18. Eagle HEat. The high water promontary to the Westwar of Graves Brack is Turner as Eagle. HEAT as shown in the chart of The Fragen.

19. Old Heck on Friging Brack. The brack to the Bratwar of Eagle Hrad is shown in the chart. Of The Fappour as Plo hecks or thinging Brack. It is directly to Haward of Manchester and the Masco-nome Hotel. The latter was located by outs Taken from Haward.

20. Ballarach Cove. The core to the West. loans of Sugaing Brook is properly turner as Balla man, but this has been complete by fishermen To

Belly Bake.

Il. Pickworth's Point. The print just ontice of Balla rack Cove to the Westwar is known as Pickworth's, so called from one of the original dellars, John Pickworth, who owned this points

of Pickworth? Point is Huma as Votate Cors.

23. Sittle tall Rock. The small group of rocks inside of tall Rock, sut of Vinging Black, is the work to fishermen as Little tall Rocks.

74. The above names, with few exceptions, and those latter from the chart of the Fappan and are those by shick they are known to the intestitants of the locality.

25. Mulharter libyer, rocks, etc. The names, locations and characteristics of uncharter libyer, rock, etc., which have been developed in the course of the Durvey follow. These names an those by thick they are Known to fishermen and have been hand. Et down from one government to unother and I would neonment their necessarion.

He. A rocky large, without name, was dr. ruloped about 650 meters Shy W & W from Hor

Thans Nor Rocks and the same distance SEIN from Hornaus Wor, with a brast depth of 4 2 fullines and deeper water bushes, 7 to 10 fathours. Where an two shoal spots, the trust water bring in the one to the laxboard; the me to the Wishward having from 5 to 6 fallines over it. The dra braks here in bat weather and sometimes very merapeledly in moduate wrather. Fishermen call thes brakers blus brakers from this fact out they are considered very dangerous. Is the fishermen these shots, when The tra brake, an deniply town as sum " and Outa shoul Wate. Fisherman set their lobely pots here as well as me all the hoger along the coast was

27. Popple-time Loge. This hoge has always been ranks.

48. Thagges Jedge. This ledge mus out to the touthwar of ledge Point, Magnolia, about & of a mile with a heast depth of 9.4 fathours of water

man its outer End. The depths in this locality an very inequales and the bottom is of there rocks.

rue mile NE of Mittle delans, is by very impalue whape, about 750 meters East and West, and about the same Moth and bout the depths varying from 83 to 15 fathoms. Is is a local froking ground and the bottom is sharp wals with coarse vans, publike and black speaks.

30. Mille Jaland Jedge. This leage lies one. half mile outside of Middle from 5 in the vance dination from Tittle bland, VIE; is of gratic Extent, about 850 meters by 12 vo meters, and whoals from 20
to 10 fathoms. A circular expot about 400 meters in
diameter varies in tapet from 10 to 12 fathous with
a hast diffth of 9.2 fathoms.

31. The half wile of 12 if tritte Island libge is another small libge, about 400 meters that and worth by 200 meters last and wrote, with depths oning from 20 to 12,2 fathoms. The bases depth bring at its forthern had. The bottom is of very sharp ont a last was lost on it, with fine vant and must

Fisherman uport there gives entoids of this, but off the mojection, is another large called talenday highly Whoal.

38. Bumpam's Poetes. This rocky ledge lies about 13 miles 55 W 1 W from Eastern Point and about the same distance. S 2 3 of from Pettle do , and 3 of a mile 18 by 2 1 2 from tettle datas selga. It is about 630 metres tirth and south by 375 metres bast and these, one may inequal in these with two alread parcher, one as the worth and the other as the south here; the hase water bring at the southern 2 to 8.4 fathous. Sottom when process, or my unsour, with common same south.

33. Sme Bumhaues Rocks. This ledge lies bue half will to by Ir from Burnhaues Rocks, is of wall sylent and of irregular chape, with from 14.2 to 15 fatherns of rater over it. Nothern rocky, com want, mus and pebbles about:

3 st. Bouldes in the Raw. Along the bac, on the seaward sion, of hagnolia loss or Harbor are a number of forestars, varying in size from their of a buck. Et To a rogshead, with diples of water from the to 18.2 feer over them with 3 fatherns alongside. These are covered with keeps.

35. Vavido Rock. This most his near the church on the Worthern 200ge of the Manuel leading into they notice Harbon. It stands 4½ per out of water, as how water, with 10 per alonguise, and is covered with Kelf. It was so called in director from the name of a fisherman who can on it in his dong, its position than thing so well therem. Fishermen place of a piece of gas pipe in a hole drilled in the Top of this rack and it acts as a capitale.

36. Harow Ledge This ledge his of the What, in heagnolie Hurber, in a truthsostule dinotion from it, with a line of transings along its
Shoolset part showing 6:, 8.4, 12 aux 13 fut in its
general direction with 3 fathous about it.

3. Buck Rock. This war lies inside the what with the fee along it is award in Externa lives with the fee along side and it takes its name from the fact that deries offer buck against it then going to and from the What.

38. Mill folge et chester of boulders, of small votents, off fologuith, Point; the boulous ranging in size from half a bound to a hopsteas. I sadi-water

6.7 feet with 19 feet alonguide.

39. Love Jiege. This is by small extends and his in the forthem part of the bankor with a bash difthe by 12 feet and 15, 16, 17 and 18 feet about. Theusen a very many swell or sea mus into the kanter from at 2 or IE it breaker have.

HO. Home & soys . A mosty ledge lying It of Kettle belant and I so frat Egg Rock with a least depth of a fathering. It was an earle of after a fisherman, Mr. Sin Home of twanspoots, who was to fish on it about 75 years ago.

#1. Nove Fail Isoga. This water loga lies a shot distance #2 from the inner sus of great Egg Roots with a brass depart of 16.9 ft. with # and 5 fathous around it. It was so called from the fact that frickenism generally canges a pur and have when they failed starwhere.

HI. The Place I shis is the name of a large water, just alson of the whom and a fow feet out of water at all times. It lies SW of Golvanithis Point, is notice themen in color and takes ite name from the chape of its top.

43. Plo Spirit Tooks. This lies in line to-

Wow tabble Roots and Bring leland and whom half way. It is covered with and surrounded by tell and has I'm feet of water over it as thear how water with I feet alongeion thing lythouse hors it comes out of water.

HH. from Seland Rich. This were his 55 th of from Seland about 220 water, It has 3 to fut of water over it at mean low water with 15 per along and . It is coren 5 with and surrounded by trusp and due ing Extreme hors warm pales.

45. Titfield Istge. This hogalies I'm of how Seland with a least depth of 2 to fathorum. It is loven to with telp and how Seland Porate in situation on it. Its name was dening from the fact that an old woman, francy titfield by name, was to find for cost upon it with much success.

46. The mechanic ledge his to 2 of little That invite of I make the tonders, Two of which have have have the them at Extremely low hors. The standings when 46,5.5 au 5 5.6 fee of water own them at mean low water. The ledge mus in a Voithwritely direction and is directly the first transite theory is maintained on its laster end by the bowness that of

Manchester, who owns fishing nets at the lording

47. et løge with 3 fathour 5 je jus on it aus 4, 5 aus 6 fathomes about it was developes VIN of Vall Rocks and East of Tiestets Leage.

48. A large lodge was develope 5 devely touthe of Present Isoge with a heart depth of 11 feet with tour. ings of 12,18±, 15 and 17 feet teasless over its unique. It is of grite large extent and news in the direction of fales sidge and come or emissioned wither a part, of that or of Presents bedge. It is covered with teepe.

49. Tadoolles Rock. This letge has already been nevers.

50. Vittle Rocks, Bookso and Pickets & 20 gen.

1000 fully developed. Little Rocks with the large surround.

ing it is covered with resp. and his 44 W of Joseph Ligg. et passage is formed between but is generally that the basis by fishing rets.

51. Coles Ridge. hear the IN come of the projection, outside of the talence Channel, is a ledge of sharp rocks known as Coles Ridge. It has a least depth of 12 fathors own it with a hard bollow, fine gray vanstmus with moss on the rocks.

52. The Character of the bottom. The bottom along this course, as divilaged by the survey and from informaken gathers among prehenven, where that the Whole ma la tealles over with grante boulous varying in sign from a cabble-stone to 15 or 20 gut in diamater. The leagues are formed of these boulous of various siges and the good variation in depths is due to their presures. Inchen and off for a mile and a half the bostom is hard with evance gry sand, gravel, people and brothen whell to the Eastward; While to the Malward, and out for two miles or mon, it is hard lathe frue gry vand, broken whells and black speaks. Putside of this the bottom is genwally roft of fine gry rand with broken chells and occasinal mud spots with tome coarse tand, grant and I wall publes, especially to the Exclosers. The works of the Ladges onterior are generally whach and Corres with moss, while those weekers are amough 45 soven & with Telle.

53. Kelp is forms on the works and ledge about lasten Point, about Horman's Wor Rock and thence in an ingular line orn the works and ledges to ledge Point and on to telle deland. The bot.

Tone of thegradia husbor is covered with it and Est grass. Ell grass is also found aff followinths Points and in Kritte love. In the inequalar space to the Matward of Juste Twee, how below, Jown trad and out to great Egg Treets, including titfelds Isage, the thite Treets to Eastward of Graves delaws, the legas about the mirate bury and fittle Treets, traff is also found. expendent to the trutheast of Presentation Points, in State Core was not over Pickets League and the large league to the trutheast of the trutheast of the large league to the trutheast of the field to the trutheast of the large league to the trutheast of the state and the large league to the trutheast of the tr

15 H. fant is found in all the bracker from they

out the survey is the war on the found statum used hungs out the survey is the war on the found statuminest by find for in the Eague in 189th, It depends upon confision tous made with the tide gauge in falue Harbor and the date agrees with the date was by first lally in 1801. Ithe thating were not amoreties necessary as the distance between florester and falue is only by miles, the tides very regular and talum is only by miles, the tides very regular and the difference in view and fall about 0.02 of an inch. However, to carry one the instance of the Atalian was relabled as a tragastic, man the cantor of

the field of worst, and the tibel that found is submitted her with the difference is not thought sufficient to change the retreatment of sometimes which has almady been made. at burch made was established at their point when the gauge was friend set up, but Intermed hites were muning at the time and it was found much lossing to thing the position of the gauge. After the comparisons were taken an accidence definished by the chance to love up the persons when the chance to love up the beautiful again.

Dulaise is to the trushwair. a having from off.
Boais that was picked up at Block beland and
other similar cases have been known. The flow tite
that to the lowerward and the lot till to the last
wand, both parallel with the wast, and directly
in and out plantons. He time an qualty of
fels by the winds.

5%. Landmarks. Then are several prominents buildings which, if charles, would assist gestly in the having them of their coast, their names, b. cations and characteristics are given with the never mendation that they be placed upon the rew chart.

58. Ocean-side Hotel, Thagnolia. The year town

of this hold is an excellent landmost, soing to its prominence and save of recognition: it is toprame and ofen below a proparational top. It is marked on the projection as the line cup. The Hold Magnolia, about 100 maters to the torthward and Westward, is larger but not do good a landmark.

59. Heten Mite. This is the hours of a Hu Will, and is localed on the bluff in followinths Point, vous looking Magnolia Harbor. It is a new house, paints a light gry with white triumings and has a low con shape & Town of the same color.

or lagle Hras is a large, prominent, ygaan, no kourse with a skille versula Extending account its front.

61. The Massonomo Hotel in Manchester. This is a long darte, no building, with a square cupole, lreaks back of Jinging Brack. Fishermen refer a much of browings to it Au 5 it was located by cuts taken your off when.

to the Watward of Manchester, is very prominents from off when. It has not get been painted and

is light buff in color at present. It was located by cuts later from off when sur in the property of the W. B. Walker, the ominular of Amount of Chicago.

13. Magnolia Harbon. The Town of Magnolia is of nearly date and is quite an important and brankful trummer nears. It has four large kotels and many private collages, with about 300 personne inhabitants which is increased in Human to 3000.

It has a small but grite seems harbor with a bottom of sand and amade boulders, and, if trunged, loveld be frequented by many yearls thick now avoil the bestily owing to the uncharles dangers.

These was all developed and by placing brings on lack und of the bar and on Harbon, Core and Will Isogas the passage into and from the harbon would be made very rafe. Iwo channels lead into it from the touth last and one, from the touth West. The fourth-last Channels could each be maded by a single bring in the laws of the bar and there in connection with this recommends on Harber, Core and Will Ladges would be all that are regains. It would be simply a harbor for yastlo in themen.

b4. An anchorage, with watery bottoms, can be forms to the Eastward of Great Egg Rocks and to the twithward of Tielle Island, but the protection from toutherly and touthwestery gales and was in not good.

OF. No Hranges should ever venture inside.

of a him drawer from Popple stone Leage to Pittle.

Phand, I man Iz Reall, Parovers Roose and falso.

Leage with a proper chair is made by the locality. This is a favorite moore for factionen who do

sin to visit the locality in thuman, ethough

many come to grief. The when, warmed nearly by

a fishermon, answerd, fitte you them about it,

were this chair of the local stendy.

bb. The information earlier for by the General Instructions for Hydrogoaphic Parties is given grite guely in Coast Pilot, ettlaulie Coast, Part III, From Cape Anne to Point Jubith, but a few notes an added for the same:

67. etapset of the Coast. The coast from Haloans has such promineur marks that the vames never to a mistate as to the locality; Thatcheir Island with its two lights, Bakers Island with its two, and Half Way Rocks. In between his flowership, the gardie and Manchester, in the order names from the Eastwars. The coast is not mountainous but high, rocky and wooders, although not thickly to to the Eastwars of flowership. It getting will in the Handpipe to the Eastwars of flowership, the chances and buildings of the latter, the higher hours in Eastwar Point, the typical properties of the Decam-tide Hotel in the grand, my ramidal Topped tow. If the Decam-tide Hotel in the grade, and the Handpipe of Manchester with the telans and Great Egg That Handpipe of Manchester with the telans and Great Egg That Handpipe

But and Round Rock athoral. Suring Knth lasterly and trutherly gales dangerous heavy breakers on forms in these leges the the cycline of Detober 11th, 12th and 13th heavy breakers from Eastern Point to and beyond Rooms are unbroken line from Eastern Point to and beyond Rooms are unbroken line from Eastern Point to and broke with great funy in an inequal line from the bell broom, off Kirman's box Room, to make the point to help as off Romanis Woz, Popplastine, Ragge & Labge and Helle beland

by. Provailing wants, gales, ste. The purailing winess in the spring are from the Fastiones; in the summer, from the truthwars and Marwars; in the fall, they go around the

compass; and in winter, from the Monthwest. The braviests
gales are from Monthstast, Fratherest and Smithwest. All soon
raise a sea but southerest and Statherest gales made the
authorage uncomfortable at hines. The Monthstast gales are
most distribution on account of their hugher. Frutherest
gales are what, to to 12 hours, but get up a heavy sea
very greekly, in an no "time, and the statheresterly gales
An almost as bas.

To. Strands reach never survive a Flore in

71. Gibbett Hospital end Home for the Egas" is bring built in Gloncarter and when finisher will be available for tramer.

12. The Quarantine Halin for Gloncester is on the Paveage in Inth-East Harbon.

73. Then is no branch Hydrographic Office.

74: et Public Sauling is mointaines in Glorester. Howton during the summer minets as the foot of Poor. pool Sheet.

15. The Foreign trade of the part of Glorication is small and generally carried in by small vends. Vumber, wood, Eggs and potators are brought in from

of ora Feotia and walt from Sicily. The sall in generally brought in stranger and backs. These was sels queenly carry away fish, the only Expert of the part.

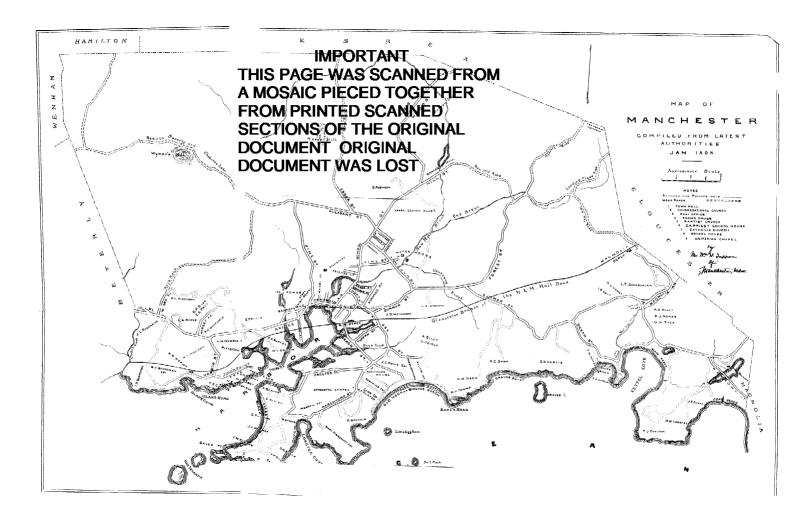
76. Harber Tigulations and Pilat 7555. lopies of the Tigulations of the Harbor of Gloricester and Rates of Pilotage for the varie on suclass with other data of the survey in departe packages.

77. helore & please of to find Form 11, Haterties

of the till of WMOR.

Vm, nepresquely,

Chief of Party, W.1. Log. S.



OUTWARD RATES, INWARD RATES,

Draft Rate Amount Draft Rate Amount Water per ft. Amount Feet & Feet &

													٠	-				
10.50	12:00	13.50	15,00	16.50	34.20	38.35	48.30	52.50	56.80	63.75	68.40	76.00	85.00	94.50	99.00	15.00	20.00	25.00
	1.50	1.50	1.50	1.50	2.85	2.95	3.45			3.75	3.80	4.00	4.25	4.50	0.7	5.001	5.001	5.001
1 -:	∞ ∮	5.	10	-	21	· :::	14	<u></u>	16	1-1	18	19	50	21	31	?? \$7	24	25.
10.50	12.00	13.50	15.00	16.50	21.36	26.00	28.00	31.50	36.00	12.50	19.50	57.00	65.00	73.50	82.50	92.00	05.00	25.00
1.50	1.50	1.50	1.50	1.50	1.7	00:	00°i	2.10	2.25	2.50	2.75	3.00	3.25	3.50	3.75	4.00	4.251	5.001
l -	X	5.	<u> </u>	=	21	÷:	+	<u>.</u>	. 16	1-	$\frac{1}{\infty}$	13	07		31	?;	77	25.

L.					a de la constantia					e start	i de	a No.		and C						4-7		
rain.	RATES.	Amount	. \ '#	T0.50	12.00	13.50	15.00	16.50	34.20	38.35	48.30	52.50	56.80	63.75	68.40	76.00	85.00	94.50	99.00	115.00	120.00	125.00
undundili 12. 23, 1873.	INWARD	Rate per ft.	*	1.50	1.50	1.50	1.50	1.50	2.85	2.95	3.45	3.50	3.55	3.75	3.80	4.00	4.25	4.50	4.50	5.00	5.00	5.00
r uman 112 83,	INN	Draft Water	Feet	7	8	62	10	11.	.12	13	11	15	16.	AT	18	19	20	2	22.	23	24.	25
or april	RATES.	Amount.	**	-10.50	12,00	13.50	15.00	16:50	21.36	26.00	28.00	31.50	36.00	42.50	49.50	57.00	65.00	73.50	82.50	92.00	102.00	125.00
of Timingo AÇT OF A	JUTWARD	Rate Per ff.	*	1.50	1.50	1.50	120	1.50	8 4 T,	2.00	2.00	2.10	2.25	20	94%	3.00	325	3.50	3.75	4.00	4.25	5.00
	OUT	Draff Water	Feet	1	8	6	10	11.	12,	13	14	10	16	L.	18	10	20:	215		60	24	23

regulations

——OF THE——

Harbor of Gloucester.

Be it enacted by the Senate and House of Representatives in General Court assembled, and by the authority of the same, as follows:

Section 1. The mayor and aldermen of the city of Gloucester may annually appoint a harbor master for the harbor of said city, who shall hold said office for one year, and until his successor is appointed. Before entering on said office he shall give a bond to said city for the prompt and fuithful discharge of his duties, in a penal sum of five hundred dollars, with sureties to the satisfaction of said mayor and aldermen. He may appoint a deputy whenever the mayor and aldermen deem it necessary, such appointment to be subject to their approval. He and his said deputy shall have the powers and duties, and shall enforce the regulations and penalties, set forth in the last twelve sections of chapter sixty-nine of the Public Statutes, and in this act, and in any other laws which are or may be in force applicable to said office and to said harbor. He shall be paid out of the treasury of said city such compensation as the city council shall from time to time determine.

- SECT. 2. From Ten Pound Island to Five Pound Island, a sufficient passageway of not less than two hundred feet in width on the northerly side of said harbor, leaving Babson's Ledge Buoy on the port hand going in, and a passageway of not less than one hundred and fifty feet in width from any wharf in Upper Cove, Smith's Cove and Harbor Cove in said harbor, shall be at all times kept open for the passage of vessels; and no vessel shall be anchored or allowed to lie at anchor in said passageways, or in the track of the ferry boats running regularly in said harbor.
- SECT. 3. At least one man shall at all times be kept on board each vessel at anchor in said harbor, and a clear and distinct light shall be kept suspended not less than six feet above the deck of every such vessel during the night.
- SECT. 4. For each violation of the provisions of this act the owners or master of the vessel concerned, as well as the person or persons directly offending, shall be liable to a penalty of twenty dollars, to be recovered by complaint or indictment to the use of said city; and shall also be liable in an action of tort to any person suffering damage by reason of such violation.
- SECT. 5. Chapter three hundred and sixty-five of the acts of the year eighteen hundred and fifty-three, entitled "An act relating to the Harbor of Gloucester," and chapter one hundred and forty-three of the acts of the year eighteen hundred and sixty-nine, being an act to amend said last-named act, are hereby repealed; but such repeal shall not effect the tenure of office of the present harbor master of said city, who shall have the same powers and duties as if appointed under this act.

SECT. 6. This act shall take effect upon its passage. [Approved June 11, 1885.]

JOHN M. ANDERSON, Harbor Master.

[CHAPTER 8, ACTS OF 1881.]

AN ACT IN RELATION TO HARBOR MASTERS.

Be it enacted, &c., as follows:

- Section 1. A harbor master, for whose appointment there is no existing provision of law, may be appointed for any harbor in the Commonwealth by the mayor and aldermen of the city or by the selectmen of the town in which such harbor is situate, who shall fix the compensation of such harbor master, to be paid by said city or town. The harbor master so appointed shall continue in office until his successor is appointed.
- SECT. 2. All vessels entering any harbor for which such harbor master is appointed shall be anchored according to his direction.
- SECT. 3. Every vessel, before unloading lumber in the stream or channel of any harbor having a harbor master, shall obtain a permit from said harbor master, designating where such lumber may be rafted to avoid obstructing the channel or hindering the movements of other vessels.
- SECT. 4. Every vessel lying in any harbor or at any wharf or pier in the same, shall, when directed by the harbor master thereof, cockbill the lower yards, brace the topsail yards fore and aft, and rig in the jib-boom.
- SECT. 5. The harbor master of any harbor may cause to be moved any vessel lying in the same and not anchored according to his directions and not moving when directed by him so to do, and the expense thereof shall be paid by the master or owners of such vessel; and in case of neglect or refusal to pay after the same shall have been demanded, said expense may be recovered of said master or owners by said harbor master to the use of the city or town in which said harbor is situated in an action of contract.
- SECT. 6. No person shall throw or deposit in any harbor any stones, gravel, ballast, cinders, ashes, dirt, mud or other substance, which may in any way tend to injure the navigation thereof.
- SECT. 7. No warp or line shall be passed across any channel or dock so as to obstruct vessels passing along the same.
- SECT. 8. If any vessel occupying a berth at any wharf or pier, either with or without the consent of the wharfinger thereof, shall fail to vacate such berth upon notice from such wharfinger or his agent to the master or those having such vessel in charge for the time being, in a reasonable time, to be adjudged by the harbor master, the harbor master shall then cause such vessel to be moved to some other berth or anchored in the stream, and the expense thereof may be collected of the master or owners thereof, by the harbor master, to the use of the city or town in which said harbor is situate in an action of contract.
- SECT. 9. Harbor masters shall have authority in their respective harbors to regulate and station all vessels in the stream or channel thereof, and to remove such as are not employed in receiving or discharging their cargoes, to make room for such others as require to be more immediately accommodated for the purpose of receiving or discharging their cargoes; and as to the fact of their being fairly and actually employed in receiving or discharging their cargoes, the harbor master shall determine.
- SECT. 10. Whoever shall refuse or neglect to obey the instructions of any harbor master lawfully given, or shall resist him in the execution of his duties, shall forfeit and pay a fine not exceeding fifty dollars.
- SECT. II. Harbor masters shall report to the harbor and land commissioners any violation of the sixth section of this act, or of any law relating to tide water in their respective harbors that shall come to their knowledge.
- SECT. 12. Any person violating the provisions of this act, in addition to any fines imposed in accordance therewith, shall be liable in an action of tort to any person suffering damage by such violation.
 - SECT. 13. This act shall take effect upon its passage.

[Approved February 9, 1881.]

City of Gloucester.

Pules and Pegulations
or THE
HARBOR MASTER.

Shipmasters will please report any violations of the within rules and regulations at the office, Sawyer Block.





Dupl

U. S. COAST AND GEODETIC SURVEY.

State: Massachusts.

DESCRIPTIVE REPORT.

LOCALITY:

Off: North Alone

Massachusetts Bayl.

1896

CHIER OF PARTY

lint. Andr. A. Dunlap, U.S.

Par	
Copy	Station 6, Baltimon Md.
Write me at:	Stalien O, Vallimen Ma.
Telegraph me at:	
My Express Office is	r <u>and a sum a sum and a sum a</u>
	U. S. COAST AND GEODETIC SURVEY.
	Steamer Blake,
	20 H Q. 1 100.
# 151.	29 th. Gecember, 1896.
	Descriptive Report.
	of the Superior transfer to
	To the Superintendent, U.S. Coast and Geodetic Survey,
	U. S. Coast and Geodetic Survey,
	Washington, D. C.
	Sir:
	1. I have the honor to submit the following descriptive
report of to	he hydrographic work executed by the party under my command
during the	and October under weer in
auring in	a months of august, September and October under your in
structions	dated the 8th of August, 1896, and the detailed instructions
of the U	drographic Inspector, dated the 10th of august 1896.
•	2. The following projections, tracings, tidal data, etc., were
received q	rom the fydrographic Inspector for the execution of this work, viz.
,	One (1) projection, scale 10000, Coast of Massachusetts between
	Bakers Island and Cloucester.
	One (1) Sheet, descriptive of triangulation stations falling
	on the above projection.
	Six (b) descriptives of tidal bench mark off the Evast
	of Massachusetts.
	One (1) Sheet, Geographic positions of is falling on pro-
A	
-	

One (1) tracing of Cloucester and vicinity from works of Lieut. Low in 1894.

One (1) tracing from Hydrographic sheet 2221 by Lunt. Teck in 1895.

One (1) copy of chart 41.335, showing location of Stand-pipe at Manchester.

One (1) sheet, Angles taken to locate the standpipe at Manchester.

3. Some discrepancies were found in the Angles taken from the triangulation stations at Baker's Island and Great Aisey and they were reported to the Hydrographic Puspector on the 19th and 24th of August last. The angles taken from the triangulation stations on Baker's Island and Eastern Joint more nearly agreed and gave letter conditions and were assumed to be correct.

In angles could be taken from examination blurch on account of king unable to reach a point sufficiently elevated from which other stations could be seen, this due to the growth of trees and foliage. The triangulation station on Hettle Island could not found and it was not found by the party of Leut. Teck in 1895. A signal, however, was exected in what was considered to be the same place as that used by Leut Teck. The loss of this triangulation point is probably due to disintegration of the grante rock in which the bolt was placed. The signals exected by Leut. Teck in 1895 had been distroyed,

with few exceptions, probably by the serve gales of the past winter.

5. On the 30th of September I made a special report of dangers to navigation which fishermen had kindly reported to me while making inquiries among them; a suplementary report was made on the 3 nd of October in regard to the location of the buoy's and break-water at the entrance to bloucester barbor; and a report was also made on the 17 th of October in regard to the people name of the ledge located off Sagnolia, Sass.

6. The survey was begun with a system of right angled intersection of lines 100 metres apart, but the ground was so broken and soundings so irregular that a very close development with double diagonal intersections was carried over many of the shoal places. Off show when the water was quite deep this was not considered so important.

Jave a great deal of assistance and those from Magnolia often put themselves out in going along, at my request, in our boats or there can to locate rocks, ledges and shoals. No charge was ever made for service of this kind and I am to them for much valued information and especially to Capt. When I Douglass of Magnolia, Mass. I would suggest that when the chart of this locality is finished that copies to sent to the following named fishermen who gave information and assistance: Capt. Whe Douglass, Messes John B. Knowlton, Charles Lewis, Menny W. Story, John G. Burnham and J. V. Nichols of Magnolia, Many W. Story, John G. Burnham and J. V. Nichols of Magnolia, Many W. Story, John G. Burnham and J. V. Nichols of Magnolia, Many

Edward Yeath and Charles Sargent of Sanchester, Sass; Capt. Marchant of Fresh Water Cove, Gloucester, and Ser. Abe Bates of Ficky Neck, Gloucester, Mass.

8. The charts of this locality give few names of prominent objects, rocks, ledges, points, etc., but fishermen and people of the vicinity have names for each which, as a general rule, have been handed clown from one generation to another. I am greatly indebted to the War He Tappan of exfanchester, these, who is the Surveyor of the town, a former state Servety, for a chart showing the names of many of the points, beaches, heads and covers, and for much other valuable information. We state that it has been and is the aim of the society of which he is president and historian to restore the original names to each locality. This chart is enclosed with other data relating to the survey and the names have been assigned to their proper places on the projection subject to your approval. I would suggest that when the chart is finished that a copy be sent to Mr. Tappan.

In two instances names, according to fishermen and others, have been improperly placed on the old boast Survey charts, viz: Little Egg Rock instead of being in close proximity to breat Egg Rock, where there is a bunch of rocks above water, is assigned to a rock 18 of a mile W. 98 N. which fishermen say is called Rock Dundy. The other name is that of the cove at Sagnolia marked on the loast Survey Charts as

Hittle love. According to Mr. Tappen and fishermen about Magnolia this name was given to the cover back of boldsmith's Tourt as marked on the chart of Manchester given me by Mr. Tappen. It is recommended ed that the names be assigned as above and the name of the cover now called Mittle love be changed to Magnolia Cover on Magnolia Marlor, as it is well known to yachtemen and fishermen by that name already.

10. Gray Beach, Black Beach and White Beach. The beach in Magnolia Marbor is now known there as Crescent Beach, but the proper name according to Mr. Tappan is Gray Beach not Grays Beach as marked on his chart; and by the same authority the one in the next cove to the Westward is Black Beach and the one in the cover beyond Crow Island, the next one to the Westward, is White Beach.

It bedar Torist. According to Mr. Douglass and others in Aggnolia the name of the point on which Aggnolia stands is bedar Trist. It derived its name from a large cedar tree which formuly stood there. In several instances lately the point has been known by the name of the person who built the last house near its extreme end, as Goodwins, Sargents and Mc Clares Frint On a road map it is marked "Jagnolia Trint"

12. Topplestone Beach. The stony beach in the bight just to the Eastward of Cedar Toint is known as Topple-stone Beach from the character of the stone forming it. They are worn wind and smooth and have been thrown up by the action of the sea: so many have been carried

away by visitors that the owner has forbidden their removal.

13. Rafes Chasm. The chasm in the cliff of Norman's Wor is known as Rafes Chasm

14. Goldsmith's Point. This name is properly placed, although the road map refund to gives the name as "Coolidge's Toint."

15. Crow Island. The small, high, rocky promontory, to the Westward of boldsmith's Toint, on which is located o Tole, is known as brown Island. It was probably an island at high water, at one time, for the road passes over a bridge when it is flooded at extreme tides. It shermen state this is the name handed down to them and that it has never been known to them by any other name.

16. Fown Mead. To the Westward of White Beach, as placed on the chart of Mr. Pappan, is a high, wooded bluff called Town Mead, from the fact that it was a part of the town farm of Manchester.

17. Graves Beach. The name of Graves Island is properly placed and the sandy beach immediately to the Northward and West-ward should be called Graves Beach, as shown on the chart of Mr. Tappan.

18. Cagli Head. The high rocky promontory to the Westward of Graves Beach is known as Eagle Head, as shown on the chart of Mr. Tappan,

19. Old Neck or Singing Beach. In bach to the West = ward of bagle Head is shown on the chart of Mr. Tappan as Old Neck or Singing Beach. It is directly to seaward of Sanchester and the

Masconomo Yotel. The latter was located by cuts taken from seaward. 20. Ballarach Cove. The cove to the Westward of Singing Beach is properly known as Ballarach, but this has been corrupted by fishermen to Belly ache.

21. Tickwrith's Point. The point just outside of Ballarack Cove to the Westward is known as Tickworth's, so called from one of the original setters, John Tickworth, who owned this point.

setters, John Pickworth, who owned this point.
22. Lobster box. The cove to the Westward of Tickworth's Soint is known as Lobster box.

33. Little Salt Rocks. The small groups of rocks inside of Salt Rock, and off Singing Beach, is known to fishernen as Little Salt Rocks.

24. The above names, with few exceptions, are those taken from the chart of Mr. Tappan and are those by which they are known to the inhabitants of the locality.

25. Uncharted ledges, rocks, etc. The names, locations and characteristics of uncharted ledges, rocks, etc. which have been developed in the course of the survey follow. These names are those by which they are known to fishermer and have been handed down from one generation to another and I would recommend their retention.

24. A rocky lidge, without name, was developed about \$50 metres S by W/4W from Norman's Wor Hock and the same distance S.E. 1/2 S. from Norman's Woe, with a least depth of 4/2 fathours and

last water being on the one to the Eastward; the one to the Westward having from 5 to 6 fathoms over it. The sea breaks here in bad weather and sometimes very unexpectedly in moderate weather. Fishermen call these breakers "blind breakers" from this fact and they are considered very dangerous. To the fishermen these spots, when the sea breaks, are simply known as "Inner and Outer Shoal Water". Fishermen set their lobber pots here as well as on all the ledges along the coast war show

27. Topplestone Ledge. This ledge has already been reported.

28. Ragged Ledge. This ledge runs out to the Southward of Erdar Soint, Magnolia, about % of a mile with a least depth of 7. I fathoms of water mear its outer end. The depths on this locality are very irregular and the bottom is of sharp rocks.

39. Siddle bround. This ledge lies about one mile S.S. E. of Wittle Island, is of very irregular shape, about 750 metres East and West, and about the same Morth and South; with depths varying from 8 3/4 to 15 fathoms. It is a local fishing ground and the bottom is sharp weeks with coarse sand, pebbles and black specks.

30. With Island Ledge. This ledge his one half mile outside of Middle Ground in the same direction from Wittle Island, S. S. E; is of quater extend, about 850 metres by 1200 metres, and shoots from 20 to 10 fathoms. A circular spot about 400 metres in diameter varies in depth from 10 to 12 fathoms with a least depth of 9.2 fathoms.

31. One half mile S.S. 6. of Wittle Island Ledge is another small lidge, about 400 metres North and South by 200 metres East and West; with depths varying from 20 to 12.2 fathoms, the least depth being at its Southern end. The bottom is of very sharp rocks, a lead was lost on it, with fine sand and mud. Tishermen report that just outside of this, but off the projection, is another ledge called Saturday Nights Shoal.

32. Burnham's Rocks. This rocky ledge lies about 17/8 miles S. & W /2 W. from Eastern Point and about the same distance S. E. 7/4 S. from Wettle Island, and I/4 of a mile S. E. by E. /2 E. from Wettle Island Ledge. It is about \$30 metres North and South by 376 metres East and West, very irregular in shape with two shoot patches, one at the North and the other at the South end; the least water being at the Southern end, 8.4 fathours. Bottom sharp rocks, very uneven, with coarse sand and Afud.

33. Inner Burnham's Rocks. This ledge lies one half mile N. by W. from Burnham's Rocks, is of small extent and of irregular shape, with from 14.2 to 15 fathoms of water over it. Bottom rocky, coarse sand, mud and pebbles about.

34. Boulders on the Bar. Along the bar, on the seaward side, of Aggnolia bove or Mactor are a number of boulders, varying in size from that of a bucket to a hogshead, with depths of water from 4.6 to 12.2 feet over them with 3 fathous alongside. These are covered with Kelp.

35. David's Rock. This rock lies mear the shore on the Northern edge of the channel leading into Magnolia Yarbor. It stands 4/2 feet out of water, at low water, with 10 feet alongside, and is covered with kelp. It was so called in devision from the name of a fisherman who ran on it in his day, its position being so well known. Fisherman placed a piece of gas pipe in a hole drilled in the top of this rock and it acts as a spindle.

36. Marbor Ledge. This ledge lies off the wharf, in Magnolia Carbor, in a Southwesterly direction from it, with a line of Soundings along its shoulest part showing 6/2, 8.4, 12 and 13 feet in its general direction with 3 fathoms about it.

37. Buck Rock. This rock his inside the wharf at Mag = white and about 10 metres from it. It is awash in extreme tides with 4/2 feet alongside and it takes its name from the fact that dories often buck against it when going to and from the wharf.

38. Mill Ledge. A cluster of boulders, of small extent, off Goldsmith's Toint; the boulders varying in size from half a barrel to a hogshead. Least water 6.7 feet, with 17 feet alongside.

39. Cove Ledge. This is of small extent and lies in the Southern part of the harbor with a least depth of 12 feet and 15, 11, 17 and 18 feet about. Whenever a very heavy swell or sea runs into the harbor from 4.8, or 5.6. it breaks here.

40. Stone Ledge. A rocky ledge lying S.W. of Wittle Island

and Si. of Great togg Rock with a least depth of 8 fathours. It was so called after a fisherman, Mr. Otis Stone of Swamscott, who used to fish on it about 75 years ago.

4. Never Fail Ledge. This rocky ledge lies a short distance N.E. from the inner end of breat ogg Rock with a least depth of 11.9 feet with 4 and 5 fatherns around it. It was so called from the fact that fishermen generally caught a few cool here where they failed elsewhere.

42. Saddle Rock. This is the name of a large rock, just clear of the shore and a few feet out of water at all times. It lies I've of Goldsmith's Toint, is reddish brown in color and takes its name from the shape of its top.

43. Old Spirit Rock. This lies in line between Saddle Rock and brow Island and about half way. It is covered with and sur rounded by kelp and has 1/2 feet of water over it at mean low water with 7 feet alongside. Ouring extreme tides it comes out of water.

4. Grow Island Rock. This rock his s. S. W. of brow Island about 220 metres. It has 3/2 feet of water our it at mean low water with 15 feet alongside. It is covered with and surrounded by Kelps. and during extreme tides shows above water.

48. Hitfields dedge. This ledge lies S.W. of brow Island with a least depth of 212 fathoms. It is covered with kelp and brow Island Rock is situated on it. Its name was derived from the fact

that an old woman, Granny Vitfield by name, used to fish for cool upon it with much success.

41. An uncharted ledge lies 41.6. of Little Rocks, inside of Great Egg, with three boulders, two of which have been known to show at extremely low tides. The soundings show 4.6, 5.5, and 5.1, feet of water over them at mean low water. The ledge runs in a Southwesterly direction and is covered with kelp. A private busy is maintained on its East ern end by Mr Edward Yeath of Sanchester, who owns fishing nets at the Western end of Graves Island.

47. A ledge with 3 fathoms 5/2 feet on it and 4, 5 and 6 fathoms about it was developed S.SW. of Salt Rocks and East of Pickets Ledge.

48. A large lidge was developed directly South of Pickets Ledge with a least depth of 11 fect with soundings of 12, 13/2, 15 and 17 fect scattered over its surface. It is of quite large extent and runs in the direction of bales sledge and could be considered either a part of that or of Tickets sledge. It is covered with kelp.

49. Paddocks Rock. This ledge has already been reported.

50. Little Bocks, Boo hoo and Tickets Ledges were fully divit oped. Little Bocks with the ledge surrounding it is covered with kelp and lies N. N. W. of breat Egg. A passage is found between but is generally obstructed by fishing nets.

51. Coles Ridge . Near the S.W. corner of the projection,

outside of the Salem channel, is a ledge of sharp rocks known as boles Ridge. It has a least depth of 12 fathoms over it with a hard bottom, fine grey sand and mud with moss on the rocks.

52. The character of the bottom. The bottom along this coast, as developed by the survey and from information gathered among Jishermen, shows that the whole area is scattered over with granite boulders varying in size from a cobble stone to 15 or 20 feet in dia= meter. The ledges are formed of these boulders of various sizes and the great variation in depths is due to their presence. Inshow and off for a mile and a half the bottom is hard with coarse grey sand, gravel, pebbles and broken shell to the wastward; while to the Westward, and out for two miles or more, it is hard with fine grey sand, broken shells and black specks. Outside of this the bottom is generally soft of fine grey sand with broken shells and occasional mud spots with some coarse sand, gravel and small publy, especially to the bastward. The rocks of the ledges outside are generally sharp and covered with moss, while those inshore are smooth and covered with kelp.

53. Welp is found on the rocks and ledges about Eastern Soint, about Norman's Wor Work and thence in an irrigular line over the rocks and ledges to bedar Soint and on to Hettle Island. The bottom of Magnolia harbor is covered with it and bel grass. Celgras,

is also found off boldsmith's Toint and in Wittle Core In the ine = gular space to the Westward of Saddle Rock, Erow Island, Town Hat and out to Great togg Fock, including Kitfield's Ledge, the White Rocks to Eastward of Graves Island, the ledges about the private busy and Sittle Rocks, Kelp is also found. Again to the Southward of Tickworth's Toint, in Loboter bore and out over Ticket's Ledge and the large ledge to the Southward of it.

54. Sand is found on all the beaches from Magnolia to Pick = worth's Toint.

is the one on Ten-Tound Island in Cloucester Yarbor and is the same as determined by Lieut. Low in the bagge in 1894. It depends upon cont parisons made with the tide gauge in Salm Yarbor and the data agrees with the data used by Lieut. Colly in 1881. Other stations are not considered necessary at the distance between Cloucester and Salm is only 114 miles, the tides every regular and the difference in rise and fall about 0.02 of an inch. However, to carry out the instructions a station was established at Magnolia, mear the centre of the field of work, and the tidel data found is submitted herewith. The difference is not thought sufficient to change the reduction of soundings which had already been made. A bench marke was established at this point where the gauge was first set up, but extreme tides were running at the time and it was found necessary to shift the

position of the gauge. After the comparisons were taken an accident deprived of the chance to level up to the buch mark again.

St. Fidal Currents. The permanent current outside is to the Southward: a busy from off Boar's Yead was picked up at Block Island and other similar cases have been known. The flood tide sets to the Westward and the elb tide to the Eastward, both parallel with the Coast, and directly in and out of harbors. All tides are guesterly affected by the winds.

57. Landmarks. There are several prominent buildings which, if charted, would assist greatly in the navigation of this evast; their names, locations and characteristics are given with the recommendation that they be placed upon the new chart.

58. Ocean-side Yotel, Magnolia. The square tower of this hotel is an excellent landmark, owing to its prominence and ease of recognition: it is square and open below a pyramidal top. It is market on the projection as Station Cup. The Yotel Magnolia, about 100 metres to the Northward and Westward is larger but not so god a landmark.

59. Station White. This is the house of a Mr. Wells and is located on the bluff on boldsmith's Foint, overlooking Magnolia Yarbor. It is a new house, painted a light brey with white trimmings and has a low come shaped tower of the same color. bo. The house of Senator Mc. Willaw, located on bagle Yead is a large, prominent, squaw, red house with a white veranda extending accross its front.

Whe Masconomo Yotel in Manchester. This is a long dark, red building, with a square Eupola, located back of Singing Beach. Fishermen refer a number of bearings to it and it was located by cuts taken from off shore.

62. A new building, are immense establishment 300 feet long, just exceed on very high ground to the Westward of Man-chester, is very prominent from off shore. It has not yet hen painted and is light buff in color at present. It was located by cuts taken from off shore and is the property of Mr. W. B. Walker the sow in-law of Armour of Chicago.

13. Magnolia Harbor. The town of Magnolia is of recent date and is quite an important and beautiful summer resort. It has four large hotels and many private cottages, with about 300 permanent inhabitants which is increased in summer to 3000. It has a small but quite secure harbor with a bottom of sand and small boulders, and, if buoyed, would be frequented by many yachts which now avoid the locality owing to the uncharted dangers. These were all developed and by placing buoys on each end of the bar and on Harbor, box and Mill dedges the passage into and from the harbor would be made very safe. Two channels lead into it from the South East

and one, from the South-West. The South-East channels could each be marked by a single buoy on the ends of the bar and these in connection with those recommended on Markor, bour and Will Ledges would be all that are required. It would be simply a harbor for yachts in summer.

It. An anchorage, with rocky bottom, can be found to the bastward of Great logg Rock and to the Northward of Wittle Island, but the protection from Southerly and Southwesterly gales and sea is not good.

from Topplestone Ledge and Hettle Island, Great Egg Rock, Taddocks Work and Cales Ledge until a proper chart is made of the locality. This is a favorite resort for yachtsmen who doing to visit the locality in summer, although many come to grief. One, when wanted recently by a fisherman, answered, Little you know about it, see this chart of the loast Survey."

16. The information called for by the General Instructions for Hydrographic Parties is given quite fully in "Coast Pilot, Atlantic Coast, Part III, From Cape Ann to Point Judith," but a few notes are added for the same.

47. As pect of the beast. The coast from seaward has such prominent marks that there should never be a mistake as to the locality; Thatche's Island with its two lights, Bakers Island with its two, and Halfway Rock. In between his blowcester, Magnolia and Manchestar, in the order named from the Eastward. The coast is not mountainous but high, rocky and wooded, although not thickly so to the Eastward of Cloucester. On getting well in the Standpipe to the Eastward of Cloucester, the churches and buildings of the latter, the lighthouse on Eastern Soirt, the square pyramidal topped tower of the Ocean-side Hotel in Magnolia, and the Standpipe of Manchester with Hittle Island and Ereat Egg Rock should never allow a mistake.

68. Sailing Directions. Under Dangers. Eastern Soint Ledge, Dog Bar and Round Rock Shoal." During Northrasterly and Southerly gales dangerous heavy breakers are found on these ledges. In the eyeline of October 11th, 12 th, and 13th, heavy breakers formed an unbroken line From Eastern Point to and beyond Hock Shoal. In this same cyclone, the sea broke with great furry in an irregular line from the bell buoy, off Norman's Wor Pock, to the uncharted ledges off Norman's Wor, Topple Stone, Pagged Ledge and Hittle Island.

Spring are from the Eastward; in the summer, from the Southward, and Westward; in the fall, they go around the compass; and in winter, from the Morthwest. The heaviest gales are from North East, South East and South West gales are from North East, South East make the anchorage uncomfortable at times. The North East gales are most destruction on account of their length. South East gales are short,

6 to 12 hours, but get up a heavy sea very quickly, in an hour's time, and the South-Westerly galis are almost as bad. To. Stranded vessels never survive a storm on this coast. 71. Gilbert's Yospital and Home for the aged "is being built in Glowerster and when finished will be available for scamen 72. The Quarantine Station for Gloucester is on the Pancake in South-Cast Harbor 13. There is no branch Hydrographic office and no time ball 74. a. Public Landing is maintained in Glowcester Yarbor during the summer months at the foot of Prospect Street. 75. The Foreign Trade of the port of Glowerster is small and generally carried on by small vessels. Lumber, wood, eggs and potatoes are brought in from Nova Scotia and salt from Sicily The salt is generally brought in steamers and barks. These vessels generally carry away fish, the only export of the port. 16. Yarbor Regulations and Tilst Foes. Copies of the Regulation of the Martor of Cloucester and Rates of Pilotage for the same are ensloced with other data of the survey in separate packages. 77. Enclosed please to find Form 11, statistics of the Field of work. Very respectfully Forwarded. Lieut Coundr. U.S. Wavy T' Com'd'r, U.S. N., Hydrograp. L. specier C. & G. Survey. Chief of Party, U.S. C. V S. S.

Puification of additional to hyd. 2269 This examination of Salurday Tright Edge and Burn have Rocks gwes about. The cause results as the curry of 1896 Type 2269 - The minimum defetted runain machanged; Viz, 74 ft & 52 gr respectively -The sweep was not used on This work; however, There is little or no Mason To suppose that much showing depths would have been found by That means The omission of Laburday Right Edge from C. C. \$109 has been noted on Styl. Lec. Handark Watten

frident of Confidence and Cabor SDAST AND GEOGETIC SURVEY November 28, 1905. REFERRED TO DRAWING SECTION. Mr. Andrew Braid, Assistant in charge of the Office. Sir:-I forward herewith Hydrographic Sheet No. 2269. "North Shore of Mass. Bay, Eastern Point to Manchester", by Lt. Comdr. Dunlap in 1896. Will you kindly have verified in the Office of the Inspector of Charts the new work by Derickson in 1905 which has been added to this sheet. Herpedfully, Assistant and Chief, Drawing and Engraving Division.